

Mexican Fishing Bats

This short Scinema 2018 Community Program film follows Edward Hurme and his team as they study the Mexican Fishing Bat, trying to work out exactly how they hunt and catch prey, using biological systems far more advanced than any technology we currently have to hand, and what we can learn from them. Could be used to deliver the Biological Sciences curriculum for Years 4 looking at ecosystems, Year 5 looking at specific adaptations the bats might have and Year 7 looking at food webs/chains.

Video Length: 5:56m

<https://australiascience.tv/vod/mexican-fishing-bats/>

LINKED TO SCIENCE UNDERSTANDING		
	TOPIC	CONCEPTS
Biological Sciences	Ecosystems Lifecycles Living Things	Interdependence and Ecosystems Diversity and Evolution Form and Function
Chemical Sciences		
Earth and Space Sciences		
Physical Sciences		
Additional	Careers, Maths, Technology	

YEAR	BIOLOGICAL SCIENCES	CHEMICAL SCIENCES	EARTH AND SPACE SCIENCES	PHYSICAL SCIENCES
R				
1				
2				
3				
4	ACSSU073			
5	ACSSU043			
6				
7	ACSSU112			
8				
9				
10				

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LINKED TO SCIENCE INQUIRY SKILLS	YEAR
Questioning and predicting	
1. How will the work that Edward and his team are doing help the bats in the future? <i>(By letting people know where the bats go to eat, it might make humans less likely to go to those areas, or be respectful and kind to the bats in those places and help them by not over fishing the waters and helping them to not be endangered anymore)</i>	4
2. What community decisions do you think might change as a result of this research? <i>(The local people might use other areas to fish to help the bats get more food)</i>	5
Communicating	
1. What Science processes are Edward and his team doing to prove how the bats catch their food? <i>(Discuss the methods Edward and his team use as illustrated and talked about in the film, and why they do each step – especially important to talk about how the scientists record and log everything always)</i>	4
2. What evidence are Edward and his team using to help the bats? <i>(See above)</i>	5
3. How is people’s understanding of bats changing through research like this?	7
4. What different branches of Science and STEM do you think are working together with this research on Bats?	7
5. What are the ethical considerations when working with animals like this for research?	7
6. What different occupations do you think are involved in this research? <i>(Think about the support occupations as well as the research scientists, like the people who make the technology, and the people who transport the scientists to the location etc)</i>	7

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YEAR	LINKED TO SCIENCE AS A HUMAN ENDEAVOUR	CURRICULUM CODE
Yr 4	Nature and development of science	
	1. Science involves making predictions and describing patterns and relationships. a. <i>explore ways in which scientists gather evidence for their ideas and develop explanations</i>	ACSHE061
	Use and influence of science	
	1. Science knowledge helps people to understand the effect of their actions. a. <i>exploring how science has contributed to a discussion about an issue such as loss of habitat for living things or how human activity has changed the local environment</i>	ACSHE062
Yr 5	Nature and development of science	
	1. Science involves testing predictions by gathering data and using evidence to develop explanations of events and phenomena and reflects historical and cultural contributions	ACSHE081
	Use and influence of science	
	1. Scientific knowledge is used to solve problems and inform personal and community decisions	ACSHE083
Yr 7	Nature and development of science	
	1. Scientific knowledge has changed peoples' understanding of the world and is refined as new evidence becomes available	ACSHE119
	2. Science knowledge can develop through collaboration across the disciplines of science and the contributions of people from a range of cultures	ACSHE223
	Use and influence of science	
	1. Solutions to contemporary issues that are found using science and technology, may impact on other areas of society and may involve ethical considerations. a. <i>Consider how human activity in the community can have positive and negative effects on the sustainability of ecosystems</i>	ACSHE120
	2. People use science understanding and skills in their occupations and these have influenced the development of practices in areas of human activity	ACSHE121